

SAFETY DATA SHEET

Seahorse XF Hu T Cell Activation Assay Kit

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name	: Seahorse XF Hu T Cell Activation Assay Kit		
CAS number	: <input checked="" type="checkbox"/> -deoxyglucose (2-DG)	154-17-6	
	ImmunoCult™ Human	CD3/CD28 T Cell	Not applicable.
	Activator		
Part no. (chemical kit)	: 103759-100, 103766-100		
Part no.	: <input checked="" type="checkbox"/> -deoxyglucose (2-DG)		103761-000
	ImmunoCult™ Human	CD3/CD28 T Cell	103760-000
	Activator		

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	: For research use only.		
	<input checked="" type="checkbox"/> -deoxyglucose (2-DG)		2 x 246.24 mg
	ImmunoCult™ Human	CD3/CD28 T Cell	1 x 2 ml
	Activator		
Uses advised against	: Not for use in diagnostic procedures (RUO).		

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000
e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition	: <input checked="" type="checkbox"/> -deoxyglucose (2-DG)	Mono-constituent substance
	ImmunoCult™ Human	Mixture
	CD3/CD28 T Cell	
	Activator	

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

-deoxyglucose (2-DG) The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

ImmunoCult™ Human CD3/CD28 T Cell Activator The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Ingredients of unknown toxicity : ImmunoCult™ Human CD3/CD28 T Cell Activator
Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%
Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10%

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SECTION 2: Hazards identification

Ingredients of unknown ecotoxicity : ImmunoCult™ Human CD3/CD28 T Cell Activator Contains 1.2% of components with unknown hazards to the aquatic environment

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal word : 2-deoxyglucose (2-DG) No signal word.
 ImmunoCult™ Human CD3/CD28 T Cell Activator No signal word.

Hazard statements : 2-deoxyglucose (2-DG) No known significant effects or critical hazards.
 ImmunoCult™ Human CD3/CD28 T Cell Activator No known significant effects or critical hazards.

Precautionary statements

Prevention : 2-deoxyglucose (2-DG) Not applicable.
 ImmunoCult™ Human CD3/CD28 T Cell Activator Not applicable.

Response : 2-deoxyglucose (2-DG) Not applicable.
 ImmunoCult™ Human CD3/CD28 T Cell Activator Not applicable.

Storage : 2-deoxyglucose (2-DG) Not applicable.
 ImmunoCult™ Human CD3/CD28 T Cell Activator Not applicable.

Disposal : 2-deoxyglucose (2-DG) Not applicable.
 ImmunoCult™ Human CD3/CD28 T Cell Activator Not applicable.

Supplemental label elements : 2-deoxyglucose (2-DG) Not applicable.
 ImmunoCult™ Human CD3/CD28 T Cell Activator Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : 2-deoxyglucose (2-DG) Not applicable.
 ImmunoCult™ Human CD3/CD28 T Cell Activator Not applicable.

Special packaging requirements

Tactile warning of danger : 2-deoxyglucose (2-DG) Not applicable.
 ImmunoCult™ Human CD3/CD28 T Cell Activator Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII :

	PBT	P	B	T	vPvB	vP	vB
2-deoxyglucose (2-DG)							
	N/A	N/A	N/A	N/A	N/A	N/A	N/A

ImmunoCult™ Human CD3/CD28 T Cell Activator This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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SECTION 2: Hazards identification

Other hazards which do not result in classification : 2-deoxyglucose (2-DG) None known.
 ImmunoCult™ Human None known.
 CD3/CD28 T Cell
 Activator

SECTION 3: Composition/information on ingredients

3.1 Substances : 2-deoxyglucose (2-DG) Mono-constituent substance
 ImmunoCult™ Human CD3/CD28 Mixture
 T Cell Activator

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
2-deoxyglucose (2-DG) 2-deoxy-D-glucose	EC: 205-823-0 CAS: 154-17-6	100	Not classified. See Section 16 for the full text of the H statements declared above.	-	[1]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

2-deoxyglucose (2-DG) [1] Constituent

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : 2-deoxyglucose (2-DG) Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
 ImmunoCult™ Human Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
 CD3/CD28 T Cell
 Activator

Inhalation : 2-deoxyglucose (2-DG) Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
 ImmunoCult™ Human Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
 CD3/CD28 T Cell
 Activator

Skin contact : 2-deoxyglucose (2-DG) Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
 ImmunoCult™ Human Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
 CD3/CD28 T Cell
 Activator

Ingestion : 2-deoxyglucose (2-DG) Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
 ImmunoCult™ Human Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
 CD3/CD28 T Cell
 Activator

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SECTION 4: First aid measures

Protection of first-aiders : 2-deoxyglucose (2-DG) No action shall be taken involving any personal risk or without suitable training.
 ImmunoCult™ Human CD3/CD28 T Cell Activator No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact : 2-deoxyglucose (2-DG) No known significant effects or critical hazards.
 ImmunoCult™ Human CD3/CD28 T Cell Activator No known significant effects or critical hazards.

Inhalation : 2-deoxyglucose (2-DG) No known significant effects or critical hazards.
 ImmunoCult™ Human CD3/CD28 T Cell Activator No known significant effects or critical hazards.

Skin contact : 2-deoxyglucose (2-DG) No known significant effects or critical hazards.
 ImmunoCult™ Human CD3/CD28 T Cell Activator No known significant effects or critical hazards.

Ingestion : 2-deoxyglucose (2-DG) No known significant effects or critical hazards.
 ImmunoCult™ Human CD3/CD28 T Cell Activator No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : 2-deoxyglucose (2-DG) No specific data.
 ImmunoCult™ Human CD3/CD28 T Cell Activator No specific data.

Inhalation : 2-deoxyglucose (2-DG) No specific data.
 ImmunoCult™ Human CD3/CD28 T Cell Activator No specific data.

Skin contact : 2-deoxyglucose (2-DG) No specific data.
 ImmunoCult™ Human CD3/CD28 T Cell Activator No specific data.

Ingestion : 2-deoxyglucose (2-DG) No specific data.
 ImmunoCult™ Human CD3/CD28 T Cell Activator No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : 2-deoxyglucose (2-DG) Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
 ImmunoCult™ Human CD3/CD28 T Cell Activator In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : 2-deoxyglucose (2-DG) No specific treatment.
 ImmunoCult™ Human CD3/CD28 T Cell Activator No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: 2-deoxyglucose (2-DG) ImmunoCult™ Human CD3/CD28 T Cell Activator	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: 2-deoxyglucose (2-DG) ImmunoCult™ Human CD3/CD28 T Cell Activator	None known. None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: 2-deoxyglucose (2-DG) ImmunoCult™ Human CD3/CD28 T Cell Activator	No specific fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	: 2-deoxyglucose (2-DG) ImmunoCult™ Human CD3/CD28 T Cell Activator	Decomposition products may include the following materials: carbon dioxide carbon monoxide Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides

5.3 Advice for firefighters

Special precautions for fire-fighters	: 2-deoxyglucose (2-DG) ImmunoCult™ Human CD3/CD28 T Cell Activator	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: 2-deoxyglucose (2-DG) ImmunoCult™ Human CD3/CD28 T Cell Activator	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: 2-deoxyglucose (2-DG) ImmunoCult™ Human CD3/CD28 T Cell Activator	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
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SECTION 6: Accidental release measures

For emergency responders	: 2-deoxyglucose (2-DG)	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	ImmunoCult™ Human CD3/CD28 T Cell Activator	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: 2-deoxyglucose (2-DG)	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	ImmunoCult™ Human CD3/CD28 T Cell Activator	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and material for containment and cleaning up		
Methods for cleaning up	: 2-deoxyglucose (2-DG)	Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
	ImmunoCult™ Human CD3/CD28 T Cell Activator	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.	

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	: 2-deoxyglucose (2-DG)	Put on appropriate personal protective equipment (see Section 8).
	ImmunoCult™ Human CD3/CD28 T Cell Activator	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: 2-deoxyglucose (2-DG)	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	ImmunoCult™ Human CD3/CD28 T Cell Activator	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Storage	: 2-deoxyglucose (2-DG)	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use
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SECTION 7: Handling and storage

ImmunoCult™ Human CD3/CD28 T Cell Activator

appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations	: 2-deoxyglucose (2-DG) ImmunoCult™ Human CD3/CD28 T Cell Activator	Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific solutions	: 2-deoxyglucose (2-DG) ImmunoCult™ Human CD3/CD28 T Cell Activator	Not available. Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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SECTION 8: Exposure controls/personal protection

- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties**Appearance**

Physical state	: 2-deoxyglucose (2-DG) ImmunoCult™ Human CD3/CD28 T Cell Activator	Solid. Liquid. [Clear.]
Colour	: 2-deoxyglucose (2-DG) ImmunoCult™ Human CD3/CD28 T Cell Activator	Not available. White.
Odour	: 2-deoxyglucose (2-DG) ImmunoCult™ Human CD3/CD28 T Cell Activator	Not available. Not available.
Odour threshold	: 2-deoxyglucose (2-DG) ImmunoCult™ Human CD3/CD28 T Cell Activator	Not available. Not available.
Melting point/freezing point	: 2-deoxyglucose (2-DG) ImmunoCult™ Human CD3/CD28 T Cell Activator	146 to 147°C Not available.
Initial boiling point and boiling range	: 2-deoxyglucose (2-DG) ImmunoCult™ Human CD3/CD28 T Cell Activator	Not available. Not available.
Flammability	: 2-deoxyglucose (2-DG) ImmunoCult™ Human CD3/CD28 T Cell Activator	Not available. Not applicable.

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SECTION 9: Physical and chemical properties

Upper/lower flammability or explosive limits : 2-deoxyglucose (2-DG) Not applicable.
ImmunoCult™ Human Not available.
CD3/CD28 T Cell
Activator

Flash point : 2-deoxyglucose (2-DG) Not applicable.
ImmunoCult™ Human Not available.
CD3/CD28 T Cell
Activator

Auto-ignition temperature : 2-deoxyglucose (2-DG) Not applicable.

Decomposition temperature : 2-deoxyglucose (2-DG) Not available.
ImmunoCult™ Human Not available.
CD3/CD28 T Cell
Activator

pH : 2-deoxyglucose (2-DG) Not available.
ImmunoCult™ Human Not available.
CD3/CD28 T Cell
Activator

Viscosity : 2-deoxyglucose (2-DG) Not applicable.
ImmunoCult™ Human Not available.
CD3/CD28 T Cell
Activator

Solubility(ies)	Media	Result
	2-deoxyglucose (2-DG) water	Soluble
	ImmunoCult™ Human CD3/CD28 T Cell Activator water	Soluble

Partition coefficient: n-octanol/water : 2-deoxyglucose (2-DG) Not available.
ImmunoCult™ Human Not applicable.
CD3/CD28 T Cell
Activator

Vapour pressure	Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
		mm Hg	kPa	Method	mm Hg	kPa	Method
	ImmunoCult™ Human CD3/CD28 T Cell Activator						
	water	17.5	2.3	-	92.258	12.3	-

Evaporation rate : 2-deoxyglucose (2-DG) Not available.
ImmunoCult™ Human Not available.
CD3/CD28 T Cell
Activator

Relative density : 2-deoxyglucose (2-DG) Not available.
ImmunoCult™ Human Not available.
CD3/CD28 T Cell
Activator

Vapour density : 2-deoxyglucose (2-DG) Not applicable.
ImmunoCult™ Human Not available.
CD3/CD28 T Cell
Activator

Explosive properties : 2-deoxyglucose (2-DG) Not available.
ImmunoCult™ Human Not available.
CD3/CD28 T Cell
Activator

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SECTION 9: Physical and chemical properties

Oxidising properties : 2-deoxyglucose (2-DG) Not available.
ImmunoCult™ Human Not available.
CD3/CD28 T Cell
Activator

Particle characteristics

Median particle size : 2-deoxyglucose (2-DG) Not available.
ImmunoCult™ Human Not applicable.
CD3/CD28 T Cell
Activator

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity : 2-deoxyglucose (2-DG) No specific test data related to reactivity available for this product or its ingredients.
ImmunoCult™ Human No specific test data related to reactivity available for this product or its ingredients.
CD3/CD28 T Cell
Activator

10.2 Chemical stability : 2-deoxyglucose (2-DG) The product is stable.
ImmunoCult™ Human The product is stable.
CD3/CD28 T Cell
Activator

10.3 Possibility of hazardous reactions : 2-deoxyglucose (2-DG) Under normal conditions of storage and use, hazardous reactions will not occur.
ImmunoCult™ Human Under normal conditions of storage and use, hazardous reactions will not occur.
CD3/CD28 T Cell
Activator

10.4 Conditions to avoid : 2-deoxyglucose (2-DG) No specific data.
ImmunoCult™ Human No specific data.
CD3/CD28 T Cell
Activator

10.5 Incompatible materials : 2-deoxyglucose (2-DG) May react or be incompatible with oxidising materials.
ImmunoCult™ Human May react or be incompatible with oxidising materials.
CD3/CD28 T Cell
Activator

10.6 Hazardous decomposition products : 2-deoxyglucose (2-DG) Under normal conditions of storage and use, hazardous decomposition products should not be produced.
ImmunoCult™ Human Under normal conditions of storage and use, hazardous decomposition products should not be produced.
CD3/CD28 T Cell
Activator

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Not available.

Acute toxicity estimates

N/A

Irritation/Corrosion

Conclusion/Summary : Not available.

Sensitiser

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SECTION 11: Toxicological information

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure

: 2-deoxyglucose (2-DG) Not available.
ImmunoCult™ Human Not available.
CD3/CD28 T Cell
Activator

Potential acute health effects

Inhalation : 2-deoxyglucose (2-DG) No known significant effects or critical hazards.
ImmunoCult™ Human No known significant effects or critical hazards.
CD3/CD28 T Cell
Activator

Ingestion : 2-deoxyglucose (2-DG) No known significant effects or critical hazards.
ImmunoCult™ Human No known significant effects or critical hazards.
CD3/CD28 T Cell
Activator

Skin contact : 2-deoxyglucose (2-DG) No known significant effects or critical hazards.
ImmunoCult™ Human No known significant effects or critical hazards.
CD3/CD28 T Cell
Activator

Eye contact : 2-deoxyglucose (2-DG) No known significant effects or critical hazards.
ImmunoCult™ Human No known significant effects or critical hazards.
CD3/CD28 T Cell
Activator

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : 2-deoxyglucose (2-DG) No specific data.
ImmunoCult™ Human No specific data.
CD3/CD28 T Cell
Activator

Ingestion : 2-deoxyglucose (2-DG) No specific data.
ImmunoCult™ Human No specific data.
CD3/CD28 T Cell
Activator

Skin contact : 2-deoxyglucose (2-DG) No specific data.
ImmunoCult™ Human No specific data.
CD3/CD28 T Cell
Activator

Eye contact : 2-deoxyglucose (2-DG) No specific data.
ImmunoCult™ Human No specific data.
CD3/CD28 T Cell
Activator

Delayed and immediate effects as well as chronic effects from short and long-term exposure

SECTION 11: Toxicological information

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Conclusion/Summary : Not available.

General : 2-deoxyglucose (2-DG) ImmunoCult™ Human CD3/CD28 T Cell Activator
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Carcinogenicity : 2-deoxyglucose (2-DG) ImmunoCult™ Human CD3/CD28 T Cell Activator
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Mutagenicity : 2-deoxyglucose (2-DG) ImmunoCult™ Human CD3/CD28 T Cell Activator
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Reproductive toxicity : 2-deoxyglucose (2-DG) ImmunoCult™ Human CD3/CD28 T Cell Activator
No known significant effects or critical hazards.
No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

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SECTION 12: Ecological information

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
2-deoxyglucose (2-DG) 2-deoxy-D-glucose	N/A	N/A	N/A	N/A	N/A	N/A	N/A

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

Additional information

14.6 Special precautions for user : **Transport within user’s premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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SECTION 14: Transport information

14.7 Transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV


None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

No listed substance

Label : -deoxyglucose (2-DG) Not applicable.
ImmunoCult™ Human Not applicable.
CD3/CD28 T Cell Activator

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : Not determined.
Canada : Not determined.
China : Not determined.
Eurasian Economic Union : **Russian Federation inventory:** Not determined.
Japan : **Japan inventory (CSCL):** Not determined.
Japan inventory (ISHL): Not determined.
New Zealand : Not determined.
Philippines : Not determined.

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SECTION 15: Regulatory information

- Republic of Korea** : Not determined.
- Taiwan** : Not determined.
- Thailand** : Not determined.
- Turkey** : Not determined.
- United States** : Not determined.
- Viet Nam** : Not determined.

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

 Indicates information that has changed from previously issued version.

- Abbreviations and acronyms** :
- ATE = Acute Toxicity Estimate
 - CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 - DMEL = Derived Minimal Effect Level
 - DNEL = Derived No Effect Level
 - EUH statement = CLP-specific Hazard statement
 - N/A = Not available
 - PBT = Persistent, Bioaccumulative and Toxic
 - PNEC = Predicted No Effect Concentration
 - RRN = REACH Registration Number
 - vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

Full text of abbreviated H statements

Not applicable.

Full text of classifications [CLP/GHS]

Not applicable.

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- Date of previous issue** : 27/10/2023
- Version** : 2

Notice to reader

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